

**ABSTRACT**

A spindle motor having a rotating unit including a hub and a permanent magnet secured to the hub; a stationary unit including a bracket and a stator core with a coil winding; and a bearing unit including a fixed shaft mounted on the bracket, a bushing secured to the hub, a disc clamp centering tube and at least one bearing element supporting the bushing for its rotation with respect to the shaft. The disc clamp centering tube is welded to the hub of the rotating unit.